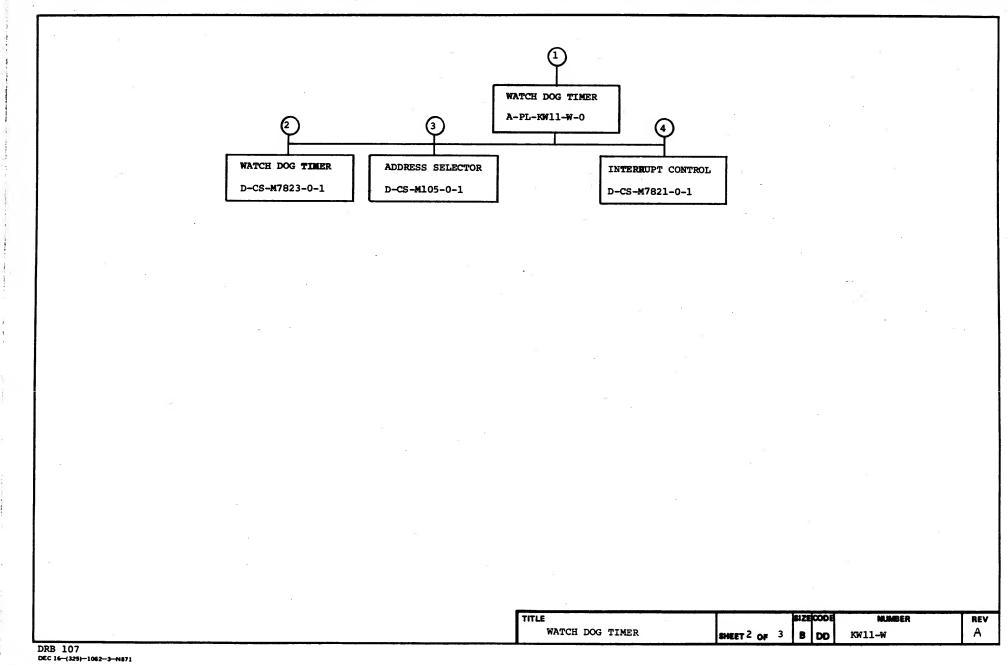
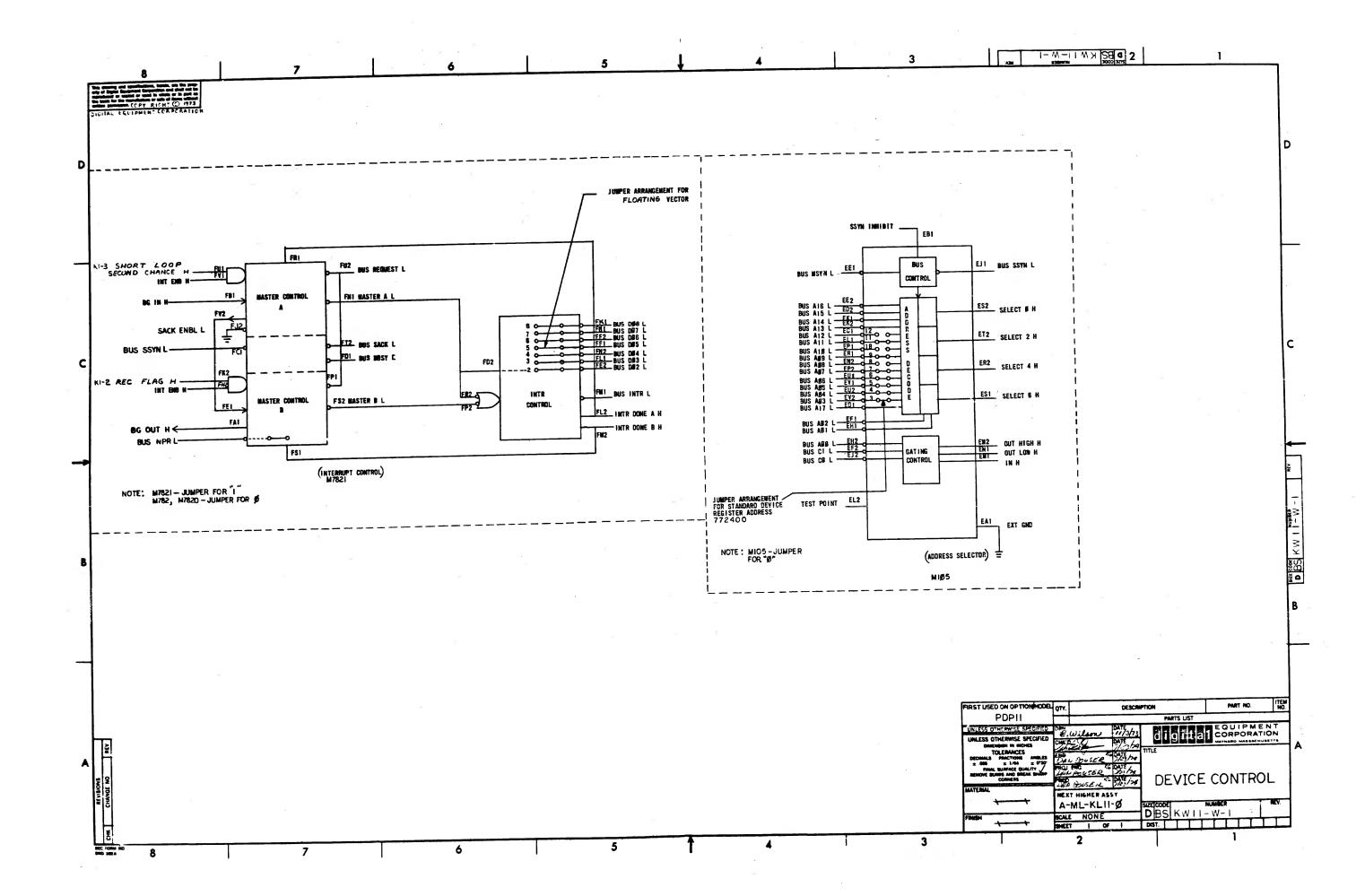
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WATCH DOG TIMER DEVICE CONTROL		SET INDEX		U	INIT VARIATIONS	PRINTSE
TEST CONNECTOR WATCH DOG TIMER ADDRESS SELECTOR	D-CS-M7823-Ø-1 D-CS-M1Ø5-Ø-1 D-CS-M7821-Ø-1			VAR	TITLE	
INTERRUPT CONTROL KW11-W ENG. SPEC. KW11-W ADJUSTMENT PROCEDURE KW11-W ACCEPTANCE PROCEDURE ACCESSORY LIST	A-SP-KW11-W-2 A-SP-KW11-W-3 A-SP-KW11-W-4 A-AL-KW11-W-5			KW11-W	WATCH DOG TIMER	1
WATCH DOG TIMER (PL)	A-PL-KWII-W					
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1 12 11 -8		<u> </u>		K, GLEEZEN	WATCH DOG TIME	ER
CHG. NO. OCCO I SAMALE SAMALE Company		· F		Win DOLLA	7/2-3/14	
OCOO A. SAMA		·		PROD.//	DATE SIZE CODE NUMBER	P
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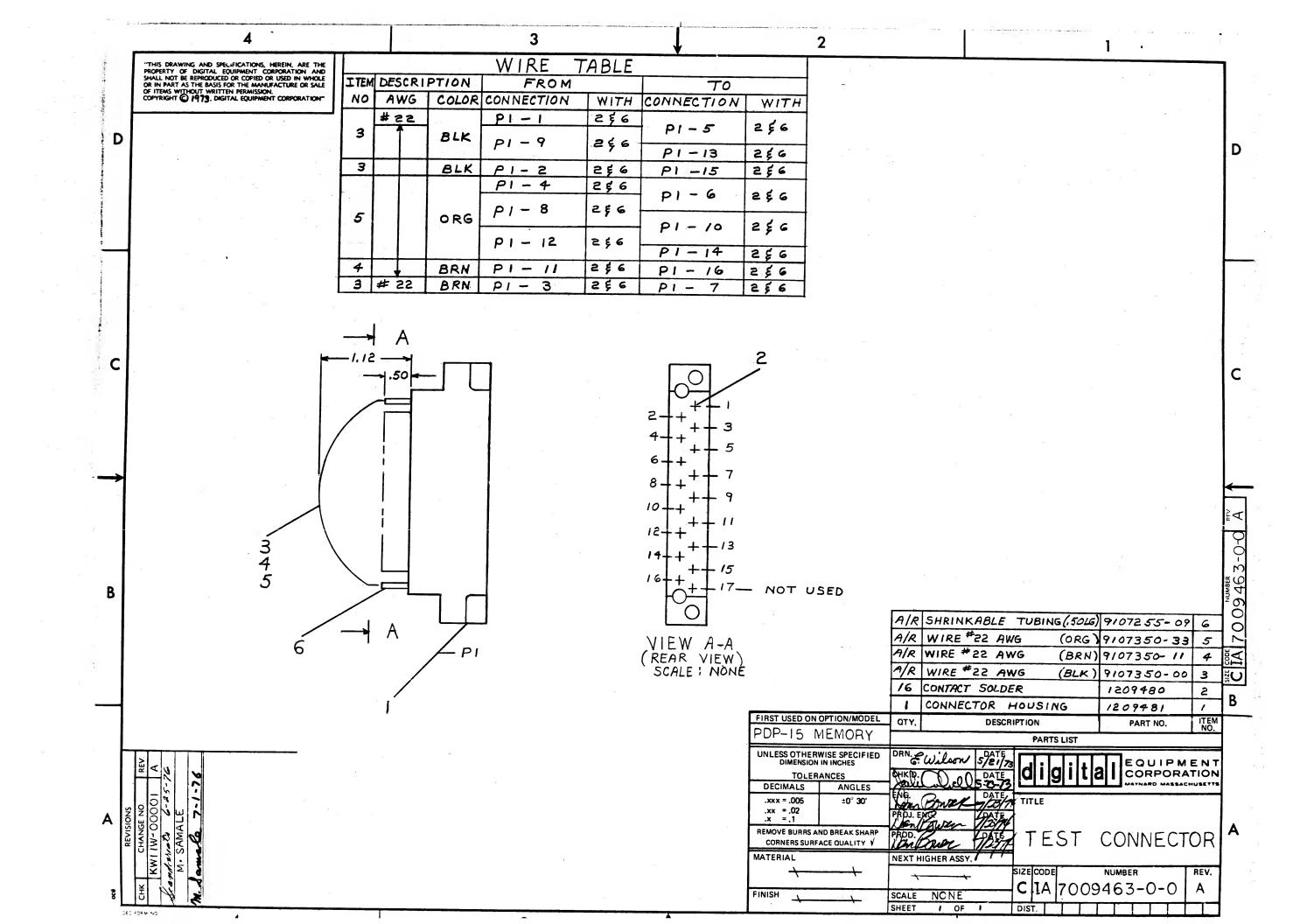


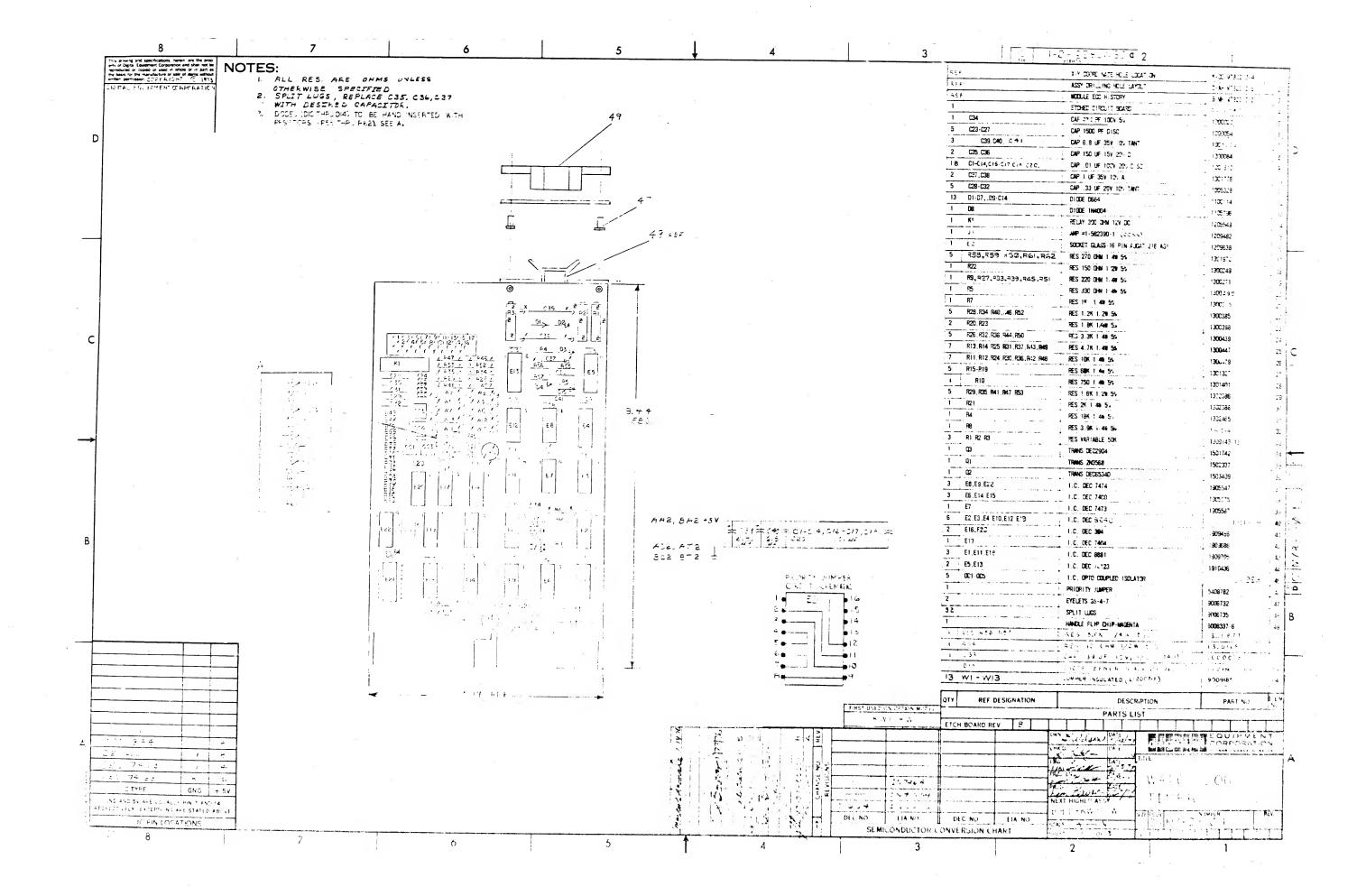
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	Τ					WATCH DOG TIMER			╅		T	7	1_			+-
	T	2	D-CS-M7823-Ø-1		3	X-Y COORDINATE HOLE LOCATION			\top				4			+
\Box	\perp		K-CO-M7823-Ø-4		1	ASSY/DRILLING HOLE LAYOUT				П	T		-			-+
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	\perp	↓_	В-МН-М7823-Ø-6	#	1	MODULE ECO 11251CK2			1	\prod			+-	+-		
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$\dashv \dashv$	+	↓_	D-AH-M1Ø5-Ø-5		1	ASSY/DRIVLING HOLE LAYOUT				\perp			+	+		
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+	+	┰	 	-	1			44	\dashv	\dashv	-+		+	+		
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-+-+	+	+-	K-CO-M7821-Ø-4		1	X-Y COORDINATE HOLE LOCATION		_	1	+	\vdash		+	+-		
-+-+	+	+-	D-AH-M7821-Ø-5		1	ASSY/DRILLING HOLE LAYOUT				+	\vdash		+			
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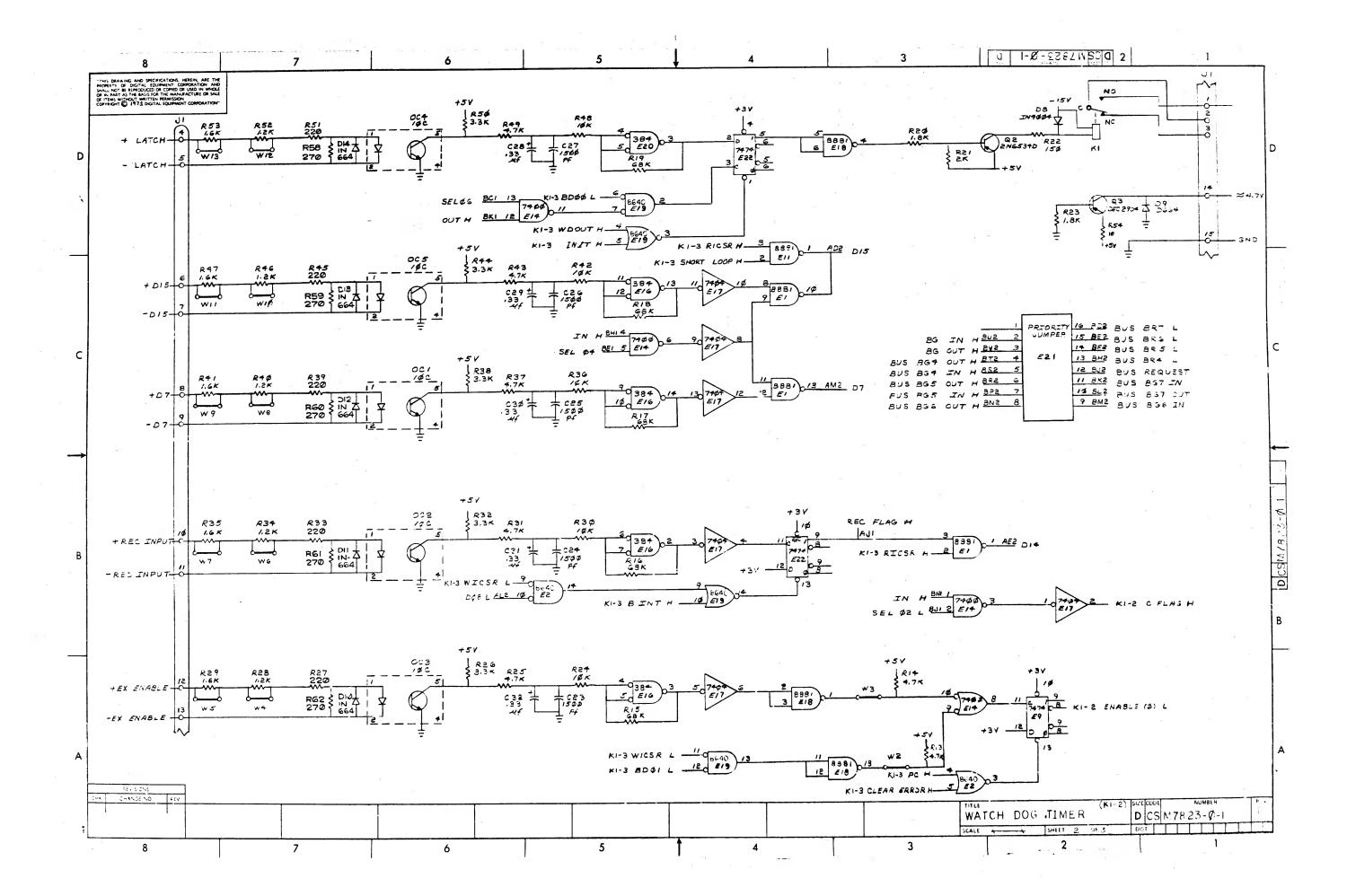
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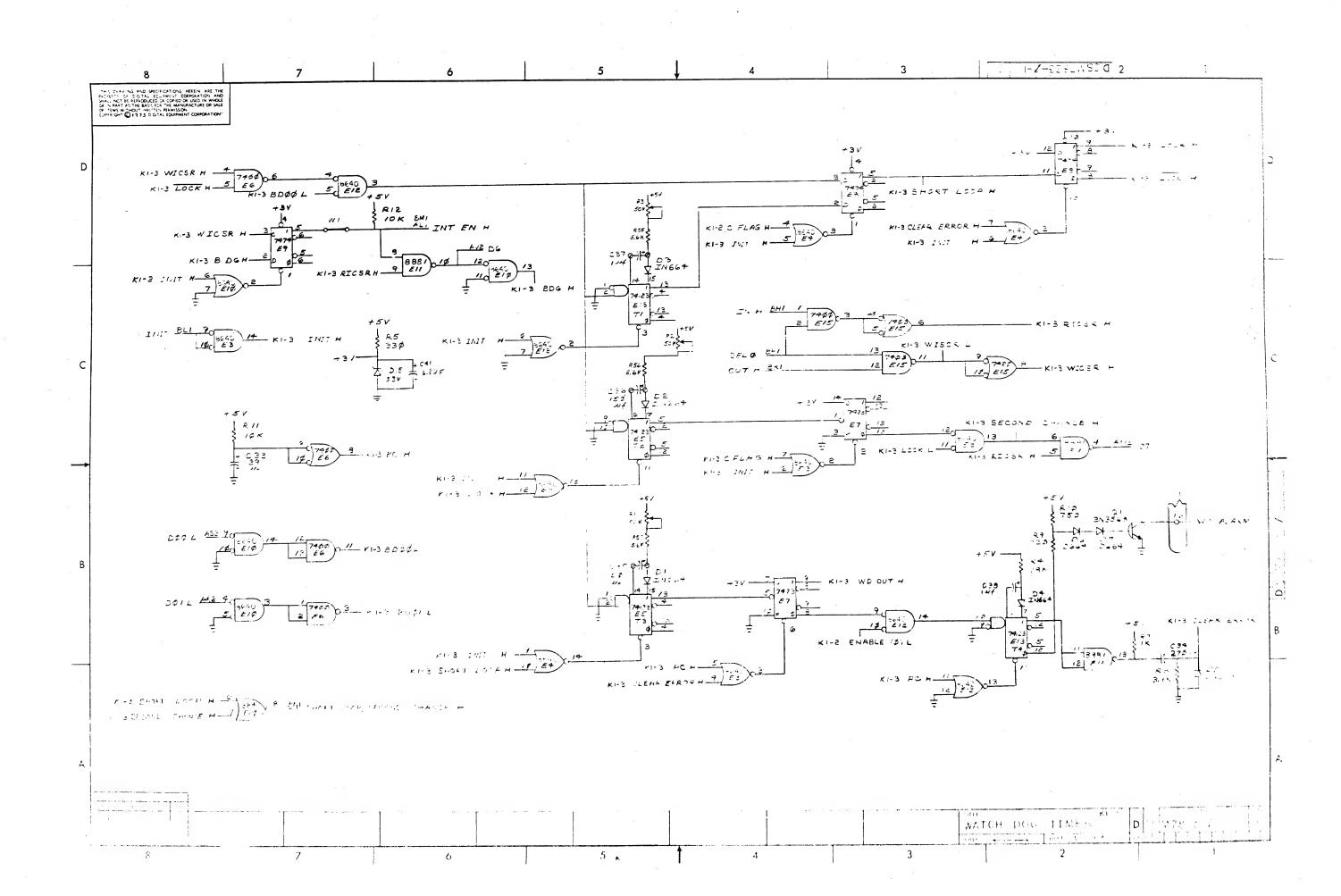
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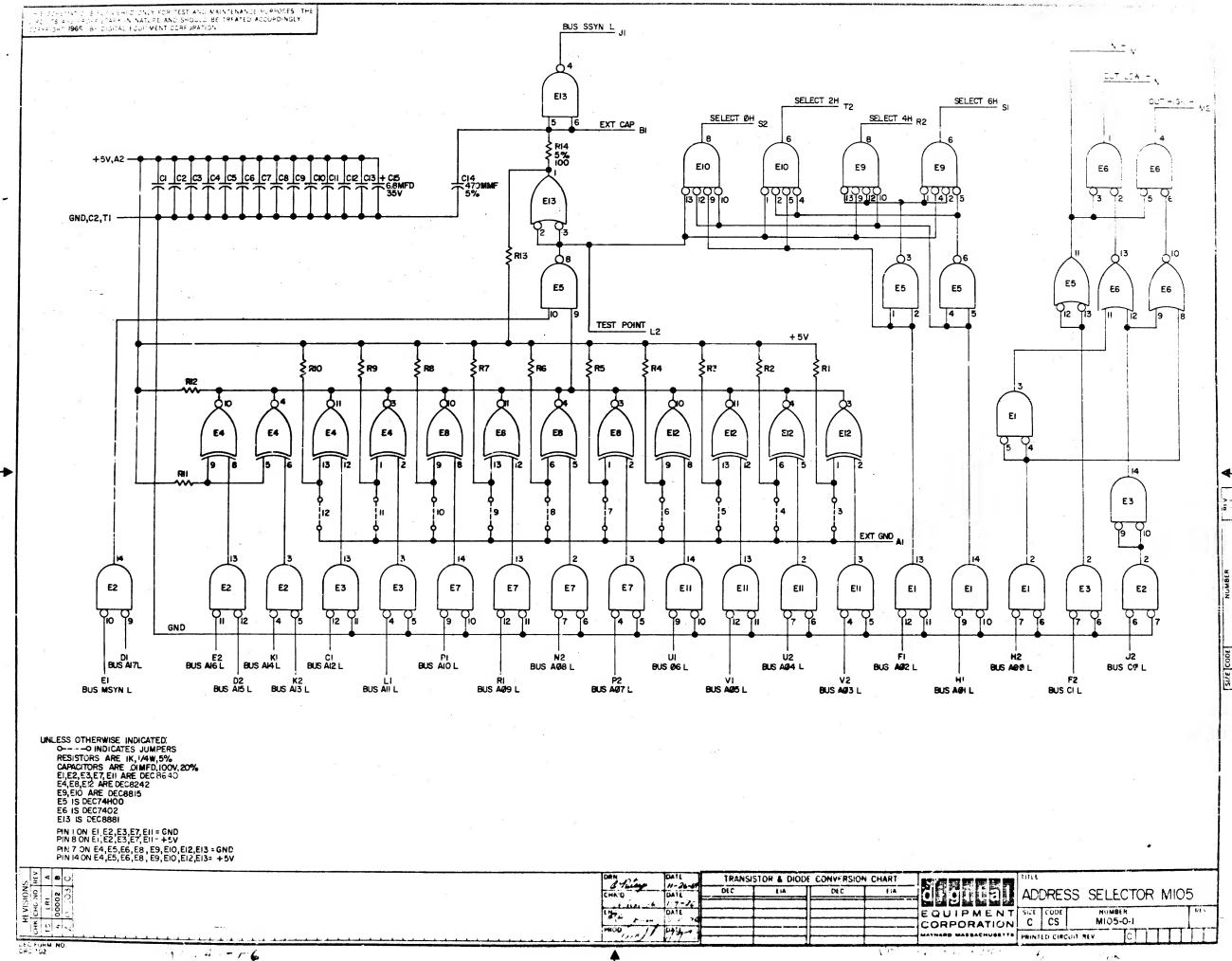


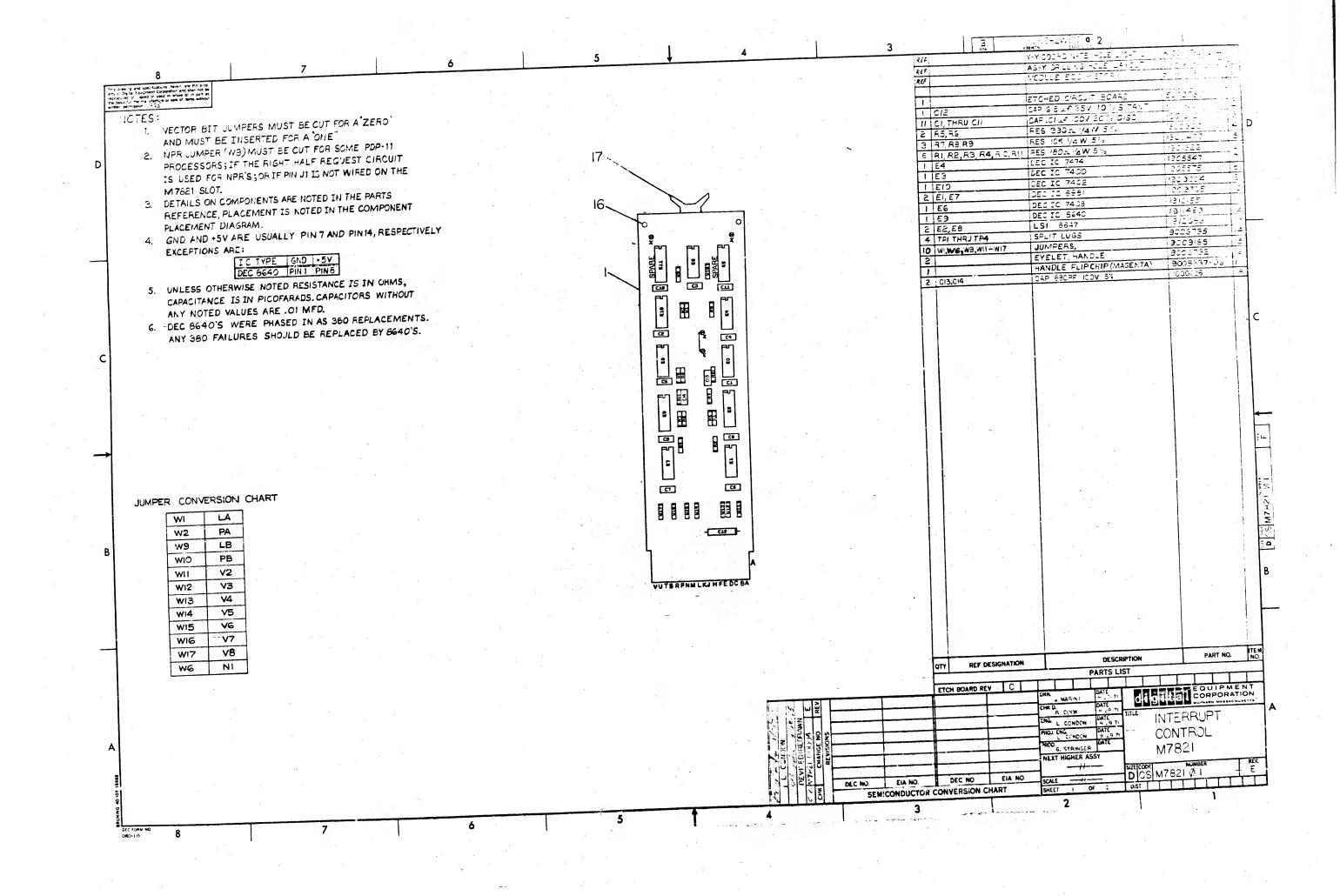


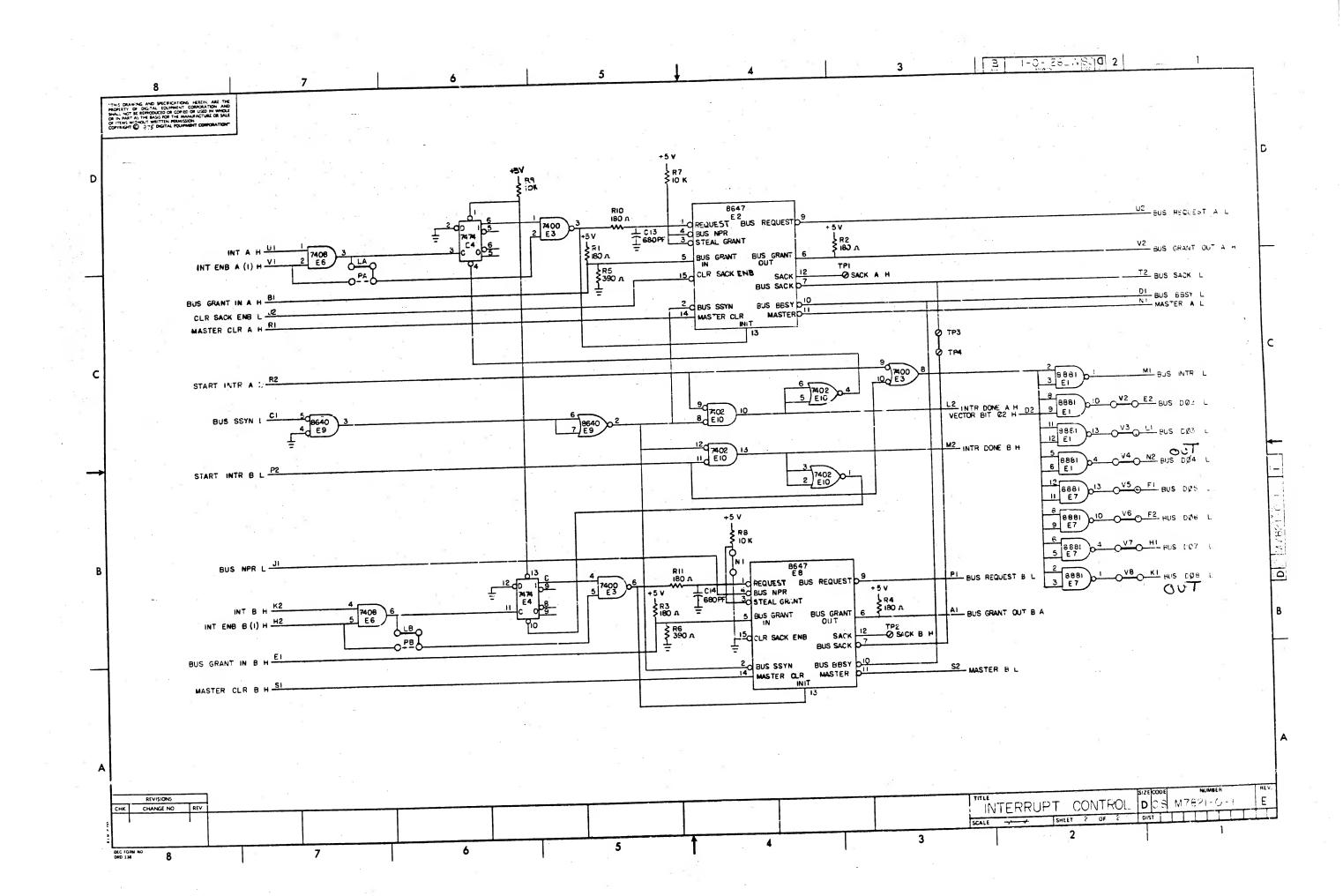




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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS de Se **ENGINEERING SPECIFICATION** DATE 4/4/74 Equipment Corporation and shall not be reproduced or copied or in whole or in part as the basis for the manufacture or sale of in without written permission. KW11-W Engineering Specifications REVISIONS DESCRIPTION ORIG DATE APPD BY REV CHG NO DATE ØØØØI 6/76 W. San la 7-1-26 SIZE CODE REV A APPD NUMBER KW1!-W-2

ENGINEERING SPECIFICATION CONTINUATION SHEET KW11-W Engineering Specifications 1. Environmental Specifications: +10^oc to +50^oc Operating Temperature Relative Humidity (no condensation) 20% to 95% +5V, ±.25V, 1.3 amps -15V, ±.25V, .2 AMPS 12 Watts Power Requirements (of option) Power Dissipation 1.1 Performance Specifications: Inputs (optically isolated) 6V, 24V, 48V norminal Input Levels (selected by jumpers) Input Current +13ma to +22ma = "1" -2 MA to +2 MA = "9" Input Response Time (6V step input) 2.5ms. max. normal 50us. maximum optional 1010 ohms minimum Common Mode Input Impedance Outputs Relay Output Form C 28V,of 250ma (3VA) résistive Solid State Output Open Collector 55V, 100ma (-3W). Timing Tl, Short Loop Refer to KW11-W Adjustment Procedure T2, Second Chance T3, Watchdog T4, Error Pulse 5msec. <u>+</u>30% NUMBER KW11-W-2 SIZE CODE DEC FORM NO DEC 16-(381)-1022-N370 DRA 108 OF _8 SHEET _2

ENGINEERING SPECIFICATION dirigatta **CONTINUATION SHEET** KW11-W Engineering Specifications: 2.0 Programming

The device registers and associated addresses are listed in Section 2.1. Note that these addresses can be changed by altering the jumpers on the M105 address selector module. However, any programs or other software referring to these addresses must also be modified accordingly.

2.1 Register Address Assignments

Register	Address
CSR/WD (Watchdog Control and Status Register)	772400
Clear Flags (T1, Short Loop; T2, Jecond Chance)	772402
External CSR	772404
Switch Relay	772406

2.2 -Vector Address Assignments (Floating Vectors)

Short Loop 2 0350 Second Chance 350 Receive Flag

TITLE KW11-W Engineering Specifications Option Priority The priority level of both interrupts is set at BR7. However, this priority may be changed by changing the priority jumper plug. (Levels of BR4 through BR7 are available.) 2.4 CSR/WD (Watchdog Control and Status Register, 772400) 1 15 8 6 刌, Short T2, Second Enable Loop Timer Chance Enable Start Receive Clear Interrupts Timer Flag Receive SIZE CODE SP NUMBER KW11-W-2

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CONTINUATION SHEET

DEC FORM NO DEC 16-(381)-1022-N370 DRA 108

ENGINEERING SPECIFICATION

SHEET _4_ OF _8_

DEC FORM NO DEC 16-(381)-1022-N370 DRA 108

SHEET 3 OF 8

REV

NUMBER KW11-W-2

SIZE CODE SP

SHEET 1 of 8

ENGIN	IEERING SPECIFICATION		iqtaði in	C	ONTINUATION SHEET					
TITLE	KWll-W Engineering Specific	ations								
Bit	Name	Me	aning	and_c	Operation					
15	Tl, Short Loop	T1, Short Loop Is set to a "1" if the watchdog readdressed before T1 times out An interrupt is generated if En Interrupts (Bit 6) is also set.								
	•									
	*	Re a d o	-		Cleared by INIT a	nđ				
14	Receive Flags		s dev	ice an	er control of the ad is set to a "l"					
					generated if Enable 6) is also set.	le.				
				bit. ive Fl	Cleared by INIT a	ınd				
8	Clear Receive Flag	When Recei	set t ve Fl	o a "] ag, (I	l", clears out the Bit 14).	,				
		Write only bit.								
7	T2, Second Chance	times to in	out. dicat to t	Can e that ime or	if the T2 delay be used as a warn t the watchdog is ut and generate an					
	*			-	generated if Enal 6) is also set.	ole				
		Read Clear			Cleared by INIT	and				
6	Enable Interrupts	gener (Bit	ated.	provi eceiv	s an interrupt to ded T1, Short Loo e Flag (Bit 14), ce (Bit 7) become	p or				
		set. Read/	/Write	bit.	Cleared by INIT	•				
	<u> </u>		SIZE	CODE	NUMBER	REV				
DEC FORM	NO DEC 16-(381)-1022-N370	1	LA_	SP	KW11-W-2 SHEET _5_ OF	1 A 8				
DRA 108	NO DEC 10-(301)-1022-10370				JILLI VI					

ENGIN	IEERIN	G SPECIFI	CATION	du iqiedi s	CONTINU	ATION SHEET	1
ITLE K	W11-W En	gineering S	pecification	s			
			*				
2.5	Clear F	lags (7724	00)				
	When is	sued, clear ond Chance	s out all fl (Bit 7).	.ags; Tl,	Short Loop	(Bit 15);	
	Read on	ly.					
2.6	Externa	1 CSR (772	404)				
		· [15	7			
		· L				1	
		D15	•	L _{DØ7}			
	Bit	Name	Meaning an	d Operati	on		
	15	D15	Input bit device sta		onitor exte	rnal	
			Read only	bit.			
	7	D # 7	device sta	tus.	onitor exte	rnal	
	Oral Armb	Polow (CTT	Read only	bit.			
2.7	Switch	Relay ((77)	2400)				
					Ø1		
	Bit ß	- When set Write onl	to a "l", er ly bit.	ergizes t	the output i	celay.	
3.0	Interf	acing Speci	fications		je:		
3.1	cablin	ng into the	(DEC 12-0554 Watchdog Tir DEC 12-9480.	19). The ner is sup	mating compoplied and	nector for is a DEC 12	
				SIZE	CODE SP KW11	NUMBER -W-2	RE'
DEC FORE	NO DEC 16	5-(381)-1022-N370			SH	EET _7 OF	8

NGINE	ERING SPECIFICA	ATION MAN	5 7	CONTINUATION S	HEET
TLE KW	Ill-W Engineering Sp	ecifications			
	1				
Bit 1	Name Enable Timer	When set to a stage of the v control or ext	"1", en	nables the our	
	,	Write only bit edge of 5msec internally ger power-up only	error	pulse and by	
ø	Start Timer	When set to a the timer is	"l" in started	the CSR/WD a	ddress,
		Write only bi	t.		
	*				
		1 0 0			
)	* ' -	•			
			141	• -	
		S	ZE COD		R RI
EC FORM NO	O DEC 16-(381)-1022-N370			S HEET _ 6	OF _8

ENG	INEERING	SPECIFICAT	TION I	ti rigirataa	С	ONTINUATION SHEE	<u> </u>
TITLE	KW11-W Eng	ineering Spec	cifications				
		Pin	Signal N	lame			
			N.O.				
		1 2	C .				
		3	N.C.				
		4 5	+ Latch - Latch			•	
		6	+ D15				
		7	- D15				
		8	+ DØ7				
		9 10	- DØ7 + Rec. 1	Input			
		11	- Rec.				
		12	+ Exter				
		13 14	- Exteri +4.7V	nal Ena	арте		
		15	GND				
ı		16	Solid S	tate O	utput		
-							
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1							
1	•						
1							
1							
		4					
			<u> </u>	SIZE	CODE	NUMBER	REV
				Å	SP	KW11-W-2	<u> A</u>
DEC FOR	M NO DEC 16-(38	1)-1022- N370				SHEET _8_ 0)F _8
DRA 108					-1 -2		•

DIGITAL EQUIPMENT CORPORATION

TITLE KW11-W Adjustment Procedure 2.4 Place the I.C. test chip on El3 (74123) and scope probe to pin 13 and adjust R3 for desired range of Short Loop (T1). (Refer to drawing D-CS-M7823-0-1). 2.5 Place the I.C. test chip on E5 (74123) and scope probe to pin 5 and adjust the R2 for desired range of second chance (T2). (Refer to drawing D-CS-M7823-0-1). 2.6 Place scope probe on pin 13 and adjust R1 for desired range of watchdog (T3). (Refer to drawing D-CS-M7823-0-1). Turn off computer power and remove extender board and install M7823. Turn on computer power and run logic test. Refer to KW11-W Acceptance Procedure. Proceed to 3.0. 3.0 Set-Up for User Application: 3.1 Turn off computer power and remove M/823 Timer. 3.2 Remove test connect (7009463) and cut optional jumpers; refer to table 2 and 2.1 for user application. 3.3 Connect the M7823 user cable and install M7823 into the computer and turn on power. 3.4 When the above criteria is met, the adjustment of the KWl1-W is complete. SIZE CODE NUMBER

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CONTINUATION SHEET

KW11-W-3

SHEET ___3_

ENGINEERING SPECIFICATION

DEC FORM NO DEC 16-(381)-1022-N370 DRA 108

ENGINEERING SPECIFICATION CONTINUATION SHEET KW11-W Adjustment Procedure Equipment: W900 Extender Board 453 Textronic Scope or Equivalent KW11-W Option and Print Set Diagnostic MAINDEC-11-DZKWC-A-PB-D I.C. Test Clip Test Connector 7009463

1.0 <u>Set-Up</u>:

Halt PDP-11 and turn off power. Disconnect user's cable and remove from system M7823. Install all jumpers on M7823; refer to print D-CS-M7823-0-1. Connect test connect 7009463 to M7823 in place of user cable. Install W900 extender board in place of M7823. Refer to table 1 for desired ranges for short loop (T1), second chance (T2), and watchdog (T3) respectively. Solder desired capacitor on split lugs on M7823. Refer to print D-CS-M7823-0-1 for split lug position. After the above procedure is complete, connect the M7823 piggy-back on the W900 module.

2.0 Delay Adjustments:

- 2.1 Turn on power and load MAINDEC-11-DZKWC-A-PB using absolute loader; refer to program write-up MAINDEC-11-DZKWC-A-D.
- 2.2 After meeting all criteria of the KWll-W Logic Test first address, vector address and priority, the operator must key in on the keyboard "2" carriage returns for delay test. The teletype will respond with the following:
 - (1) Delay Adjustment Test
 - (2) Delay: (1) Watchdog, (2) Warning & Short Loop
- The operator must input 1 carriage return. This will pulse all three delays; Short Loop (T1), Second Chance (T2), and Watchdog (T3).

SIZE CODE KW11-W-3

DEC FORM NO DEC 16-(381)-1022-N370 DRA 108 SHEET _2 OF

NG	INEERING SPECI	FICATION	CONTINUATION SHEET	r
TLE	KW11-W Adjustment	Procedure		
	7	1		
		made that Short Loop		
	maximum of 10% of	Second Chance (T2) to	ime dase.	
		Table 1		
	Capacitor C37	Short Loop (T1)	Range	
	.47uf		650 usec6.0msec.	
	1 uf		1.5msec10msec.	
	2.2uf		3msec25msec.	
	3.9uf		5-lmsec50msec.	
		Second Chance (T2)	Range	
	Capacitor C36	become chance (12)	and the second	
	10uf		15msec120msec.	
	15uf		20msec150msec.	
	100uf		150msec-1.2 sec.	
	150uf		180msec-1.5 sec.	
	180uf		210msec-2 sec.	
	Capacitor C35	Watchdog (T3)	Range	
	10uf		15msec-120msec	
	15uf		20msec-150msec	
	100uf		150msec-1.2 sec.	
	150uf		180msec-1.5 sec.	
	180uf		210msec-2 sec.	
	Toour			
	Tf does not rende	is NOT above, the fol	lowing formula can	
	be used to calcui	late the range:		
	T = Nsec	CX = Pf	•	
	RX = K			
		um/50K maximum		
	T = .28 (RX)			
	NOTE:			
		re shipped from factor	wat 5 mg 1 sec and	
	1.5 sec, respect:		y at J ms, I set and	
	•	•		
		SIZE	CODE NUMBER SP KW11-W-3	RI
		i A	SP KW11-W-3	

DEC FORM NO DEC 16-(381)-1022-N370 DRA 108

SHEET 4 OF 5

ENGI	NEERING SPECI	FICATIO	N	$f = (\hat{p})_{k}^{-1}$	CONT	INUATION SHEET
TITLE 1	W11-W Adjustment	Procedur	e			
			ı			
		Tab	le 2			
	Jumpers	,		IN	OUT	
	Wl Program Inter Enable	rupt		X	-	
	Wl Always Enable	:			x	
	W2 Program Exter Enable	nal		x		-
	W2 Not Program E Enable	xternal			х	
	W3 External Enab	le		x	*	
· .	W3 Not External	Enable			x	
		<u>Tab</u>	le 2-1	i		
	Input Voltages		6	24	48	
	External Enable	W4	IN	OUT	OUT	
	External Enable	W 5	IN	IN	OUT	
	Receive Input	W6	IN	OUT	OUT	
	Receive Input	W7	IN	IN	OUT	
	D Ø7	W8	IN	OUT	OUT	
	DØ7	W9	IN	IN	OUT	
•	D15	Wlø	IN	OUT	OUT	
	D15	W11	IN	IN	OUT	
	Latch	W12	IN	OUT	OUT	
	Latch	W13	IN	IN	OUT	
	•					
		٠.	- ,	SIZE C	DDE	NUMBER
						NUMBER 11-W-3

SHEET _5 OF _5

Equipment Corporation and shain not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission:

ENGII TITLE	NEERING SP KW11-W Accept	ance Proced				DATE 4/4	1/74
							1
REV	DESCRI		REVISIONS				
REV	DESCRI				-		
		PTION	CHG NO	ORIG	DATE	APPD BY	DATE
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						8, 8	
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ENG /	D.	APPD		SIZE C	ODE	NUMBER	REV
the	2)-1079-N971			A s	P KV	V11-W-4 SHEET 1	of 6

DIGITAL EQUIPMENT CORPORATION

polytiku . CONTINUATION SHEET **ENGINEERING SPECIFICATION** TITLE KW11-W Acceptance Procedure Load and start 200. The teletype will respond as follows: First Device Address: The operator must respond by inputting 6 characters plus a carriage return on the keyboard. Example: First Device Address = 772400 The teletype will respond as follows: 3.2 First Int. Vector The operator must respond by inputting 3 characters plus a carriage return on the keyboard. Example: ∆ First Int. Vector = 350 The teletype will respond as follows: 3.3 Priority Int. Level = The operator must respond by inputting 1 character, $\underline{\Lambda}$ Using floating vector, refer to system configuration. Should be between DQ11 and DU11. NUMBER KW11-W-4 REV DEC FORM NO DEC 16-(381)-1022-N370 DRA 108 SHEET OF

ENGINEERING SPECIFICATION CONTINUATION SHEET TITLE KW11-W Acceptance Procedure 1.0 Equipment: PDP11 Small Computer SPS (Small Peripheral Slot) M7823 (Watchdog Timer) M105 (Address Selector) M7821 (Vector Address Selector) Test Connector (7009463) KW11-W Logic Test Maindec-11-DZKWC-A-PB/D KW11-W Overlay Maindec-11-DZKWE-A-PB/D DECX11 Module Maindec-11-DXKWW-A-PR/D 2.0 Set-Up: To exercise the KWll-W Option, ALL jumpers must be installed on the M7823. Refer to print D-CS-M7823-0-1. The test connector, 7009463, must be used on KW11-W Logic Test and . KW11-W Overlay or Maindec-11-DXKWW-A. Testing KWll-W: 3.0 Load Maindec-11-DZKWC-A-PB into the PDP11 using absolute leader. Refer to program write-up, Maindec-11-DZKWC-A-D. KW11-W-4 DEC FORM NO DEC 16-(381)-1022-N370 SHEET 2 OF 5

TITLE KW11-W Acceptance Procedure Example: Priority Int. Level = 7 Proceed to 4.0. 4.0 Running the Logic Test: The teletype will respond with the following: Logic Test (1), Delay Test $(2)^*$, Dynamic (3) The operator must respond by inputting on the keyboard "1" with a carriage return for logic test. The teletype will respond with the following: Logic Test This test, upon completion, will type out "PASS". This test should run for a minimum of 5 minutes. Procede to 5.0. NOTE: Delay test (2) is part of the adjustment procedure. REV NUMBER KW11-W-4 SHEET 4.

ENGINEERING SPECIFICATION

CONTINUATION SHEET

CONTINUATION SHEET **ENGINEERING SPECIFICATION** KW11-W Acceptance Procedure TITLE Running Dynamic Test: Put Bit ## in the Switch Register to get back into the monitor or halt machine and load and start 240. If the operator has gone back into the monitor, a keyboard input must be used. Type in "3", carriage return. Will get into Dynamic Test. The teletype on every 100 completions of Dynamic Test will type "PASS". This test should run for a minimum of 15 minutes. After successfully passing the above criteria, procede to 6.0. Running GTP Overlay: If DECX11 module is available, proceed to 7.0. Load Maindec-ll-DZQGA-B-PB GTP (General Test Program) using Absolute Loader. Refer to program write-up, Maindec-11-DZQGA-B-D. Run entire system for one pass of GTP. Halt the PDP11 after one successful pass. Load Maindec-11-DZKWE-A-PB into PDP11 using Absolute Loader. Restart GTP and run as required for system acceptance. After completing 6.0, the acceptance testing is finished. NUMBER KW11-W-4

DEC FORM NO DEC 16-(381)-1022-N370 DRA 108

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